## **AMENDMENTS TO THE CLAIMS**

This listing of claims will replace all prior versions and listings of claims in the application:

## **LISTING OF CLAIMS:**

1. (Currently Amended) A method for connecting a plurality of remote applications with a data source, the method comprising:

providing at least one interface module configured to interface with a <u>at least one of the</u> remote <del>application</del> applications;

providing at least one port module configured to interface between the interface module and the data source;

providing a connection manager to facilitate the interface between the interface module and the port module; and

establishing a direct connection between the interface module and the port module.

- 2. (Original) The method of claim 1, further comprising initializing the connection manager.
- 3. (Original) The method of claim 1, further comprising establishing a connection between the connection manager and the port module.

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- 4. (Currently Amended) The method of claim 1, further comprising returning a port module identifier for an available the port module to the interface module for before directly connecting the interface module and the port module, if the port module is available.
- 5. (Original) The method of claim 1, further comprising authorizing a connection between the interface module and the connection manager.
- 6. (Original) The method of claim 1, further comprising authorizing a connection between the port module and the connection manager.
- 7. (Currently Amended) The method of claim 4, wherein a plurality of port modules are provided, and the step of returning a port module identifier for an available port further comprises the steps of:

determining which of the plurality of port modules are associated with each the data source and storing a data source identifier in a <u>first</u> data structure;

identifying each of the plurality of port module modules by a port module identifier and storing the port module identifier in a second data structure; and

determining the availability for each of the plurality of port module modules and storing an availability status for of each of the plurality of port module modules in a third data structure.

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- 8. (Currently Amended) The method of claim 7, where in wherein each of the first, second and third data structure structures is an array are arrays.
- 9. (Original) The method of claim 7, further comprising, storing the port module identifier for each available port module in a queue.
- 10. (Currently Amended) The method of claim 7 1, further comprising retrieving data from the data source responsive to a command from the requesting remote application.
  - 11. (Original) The method of claim 9, wherein the queue is a first-in-first-out array.
- 12. (Original) The method of claim 9, wherein the port module identifier for a port module that is no longer available is removed from the queue.
- 13. (Currently Amended) The method of claim 9, further comprising returning the first port module identifier placed in the queue to the connection manager.
- 14. (Currently Amended) The method of claim, 13 10 further comprising converting the command to a structured query language format to support interfacing with the data source.

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15. (Currently Amended) The method of claim 13 1, further comprising inserting data into an HTML format to support interfacing between the requesting remote application and the data source.

16. (Currently Amended) The method of claim 13 1, further comprising repeating the preceding for each additional data source query

providing a second interface module configured to interface with a second one of the plurality of remote applications;

providing a second port module configured to interface between the second interface module and the data source and to pass a query command from the second interface module to the data source, and a query result from the data source to the second interface module;

providing a connection manager to facilitate the interface between the second interface module and the second port module; and

establishing a direct connection between the second interface module and the second port module.

17. (Currently Amended) The method of claim 16 1, further comprising disconnecting the remote application from the interface module after the interface module passes a query result to the remote application.



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18. (Currently Amended) A computer readable medium having stored thereon computer executable instructions for performing a method for connecting a plurality of remote applications with a data source, the method comprising:

providing at least one interface module configured to interface with a <u>at least one of the</u> remote <u>application</u> <u>applications</u>;

providing at least one port module configured to interface between the interface module and the data source;



providing a connection manager to facilitate the interface between the interface module and the port module; and

establishing a direct connection between the interface module and the port module.

- 19. (Original) The computer readable medium of claim 18, wherein the method further comprises initializing the connection manager.
- 20. (Original) The computer readable medium of claim 18, wherein the method further comprises authorizing a connection between the interface module and the connection manager.
- 21. (Original) The computer readable medium of claim 18, wherein the method further comprises authorizing a connection between the port module and the connection manager.

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- 22. (Original) The computer readable medium of claim 18, wherein the method further comprises establishing a connection between the connection manager and the port module.
- 23. (Currently Amended) The computer readable medium of claim 22 18, wherein the method further comprising returning a port module identifier for an available the port module to the interface module for before directly connecting the interface module and the port module, if the port module is available.

24. (Currently Amended) The computer readable medium of claim 23, wherein a plurality of port modules are provided, and returning a port module identifier for an available port the method further comprises of steps of:

determining which of the plurality of port modules are associated with each the data source and storing a data source identifier in a <u>first</u> data structure;

identifying each of the plurality of port module modules by a port module identifier and storing the port module identifier in a second data structure; and

determining the availability for of each of the plurality of port module modules and storing an availability status for each of the plurality of port module modules in a third data structure.

25. (Currently Amended) The computer readable medium of claim 24, wherein each of the first, second and third data structure structures is an array are arrays.

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26. (Original) The computer readable medium of claim 24, wherein the method further comprises, storing the port module identifier for each available port module in a queue.

27. (Original) The computer readable medium of claim 26, wherein the queue is a first-in-first-out array.

28. (Original) The computer readable medium of claim 26, wherein the port module identifier for a port module that is no longer available is removed from the queue.

29. (Currently Amended) The computer readable medium of claim 26 30, further comprising returning the first port module identifier placed in the queue to the connection manager.

- 30. (Currently Amended) The computer readable medium of claim 24 18, wherein the method further comprises retrieving data from the data source responsive to a command from the requesting remote application
- 31. (Currently Amended) The computer readable medium of claim, 30, wherein the method further comprises converting the command to a structured query language format to support interfacing with the data source.

- 32. (Currently Amended) The computer readable medium of claim 30 18, wherein the method further comprises inserting data into an HTML format to support interfacing between the requesting remote application and the data source.
- 33. (Currently Amended) The computer readable medium of claim 30, wherein the method further comprises repeating steps 18 through 28 for each additional data source query:

  providing a second interface module configured to interface with a second one of the

plurality of remote applications;

module and the data source and to pass a query command from the second interface module to the data source, and a query result from the data source to the second interface module;

providing a connection manager to facilitate the interface between the second interface module and the second port module; and

establishing a direct connection between the second interface module and the second port module.

34. (Currently Amended) The computer readable medium of claim 30 18, wherein the method further comprises disconnecting the remote application from the interface module after the interface module passes a query result to the remote application.

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35. (Currently Amended) A system for connecting a plurality of remote applications with a data source, the system comprising:

an interface module configured to interface with a <u>at least one of the</u> remote application applications;

a port module configured to interface between the interface module and the data source; and

a connection manager module configured to facilitate a direct interface between the interface module and the port module.

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- 36. (Original) The system of claim 35, further configured to initialize the connection manager.
- 37. (Original) The system of claim 35, wherein the connection manager is configured to authorize the interface between the interface module and the connection manager.
- 38. (Original) The system of claim 35, wherein the connection manager is configured to authorize the interface between the port module and the connection manager.
- 39. (Original) The system of claim 35, wherein the method further comprises establishing a connection between the connection manager and the port module.

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40. (Original) The system of claim 35, wherein the connection manager establishes a connection between the connection manager and the port module.

41. (Original) The system of claim 40, wherein the port module is programmed to report its availability to the connection manager.

42. (Currently Amended) The system of claim 41 35, wherein the connection manger is configured to return a port module identifier for an available the port module to the interface module for before directly connecting the interface module and the port module, if the port module is available.

43. (Original) The system of claim 35, further comprising a data structure for storing which port modules are associated with each data source.

44. (Original) The system of claim 35, further comprising a data structure for storing a port module identifier identifying each port module.

45. (Original) The system of claim 44, wherein the data structure is an array.

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46. (Original) The system of claim 35, further comprising a data structure for storing an availability status for each port module that is available for establishing a connection to the data source.

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- 47. (Original) The system of claim 46, wherein the data structure is an array.
- 48. (Currently Amended) The system of claim 35, wherein the interface module is configured to support HTML and provide interfacing between the requesting remote application and the data source.
- 49. (Currently Amended) The system of claim 35, wherein the interface module is configured to convert the <u>a</u> command from the remote application to a structured query language format to support interfacing with the data source.



- 50. (New) The method of claim 1, wherein the port module is also configured to pass a query command from the interface module to the data source, and a query result from the data source to the interface module.
- 51. (New) The method of claim 1, wherein a plurality of interface modules and a plurality of port modules are provided; and selected ones of the interface modules and port modules are

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individually directly connected so as to operate independently of each other and the connection manager.

- 52. (New) The method of claim 1, wherein the interface module converts query requests and results between SQL and HTML.
  - 53. (New) The method of claim 1, wherein the remote application is a web browser.
- 54. (New) The method of claim 1, wherein the port module, connection manager and interface module are separate portions of executable code.
- 55. (New) The method of claim 1, wherein the port module, connection manager and interface module communicate with each other via TCP/IP.
- 56. (New) The computer readable medium of claim 18, wherein the port module is also configured to pass a query command from the interface module to the data source, and a query result from the data source to the interface module.
- 57. (New) The computer readable medium of claim 18, wherein a plurality of interface modules and a plurality of port modules are provided; and selected ones of the interface modules

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and port modules are individually directly connected so as to operate independently of each other and the connection manager.

58. (New) The computer readable medium of claim 18, wherein the interface module converts query requests and results between SQL and HTML.

59. (New) The computer readable medium of claim 18, wherein the remote application is a web browser.

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- 60. (New) The computer readable medium of claim 18, wherein the port module, connection manager and interface module are separate portions of executable code.
- 61. (New) The computer readable medium of claim 18, wherein the port module, connection manager and interface module communicate with each other via TCP/IP.
- 62. (New) The system of claim 35, wherein the port module is also configured to pass a query command from the interface module to the data source, and a query result from the data source to the interface module.
- 63. (New) The system of claim 35, wherein a plurality of interface modules and a plurality of port modules are provided; and selected ones of the interface modules and port

modules are individually directly connected so as to operate independently of each other and the connection manager.

64. (New) The system of claim 35, wherein the interface module converts query requests and results between SQL and HTML.

65. (New) The system of claim 35, wherein the remote application is a web browser.

66. (New) The system of claim 35, wherein the port module, connection manager and interface module are separate portions of executable code.

67. (New) The system of claim 35, wherein the port module, connection manager and interface module communicate with each other via TCP/IP.

68. (New) A method for connecting a plurality of remote applications with a data source, the method comprising:

providing a plurality of interface modules configured to individually interface with respective ones of the plurality of remote applications;

providing a plurality of port modules configured to individually interface between respective ones of the interface modules and the data source;

providing a connection manager that facilitates a direct connection between respective ones of the plurality of interface modules and the plurality of port modules by indicating to a first



one of the plurality of interface modules that a first one of the plurality of port modules is available.

69. (New) The method of claim 68, wherein the direct connection is independent of the connection manager.

70. (New) The method of claim 68, wherein the first one of the plurality of port modules is configured to pass a query command from the first one of the interface modules to the data source, and a query result from the data source to the first one of the interface modules.

71. (New) A computer readable medium having stored thereon computer executable instructions for performing a method for connecting a plurality of remote applications with a data source, the method comprising:

providing a plurality of interface modules configured to individually interface with respective ones of the plurality of remote applications;

providing a plurality of port modules configured to individually interface between respective ones of the interface modules and the data source;

providing a connection manager that facilitates a direct connection between respective ones of the plurality of interface modules and the plurality of port modules by indicating to a first one of the plurality of interface modules that a first one of the plurality of port modules is available.



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72. (New) The computer readable medium of claim 71, wherein the direct connection is independent of the connection manager.

73. (New) The computer readable medium of claim 71, wherein the first one of the plurality of port modules is configured to pass a query command from the first one of the interface modules to the data source, and a query result from the data source to the first one of the interface modules.

74. (Currently Amended) A system for connecting a plurality of remote applications with a data source, the system comprising:

a plurality of interface modules configured to individually interface with respective ones of the plurality of remote applications;

a plurality of port modules configured to individually interface between respective ones of the interface modules and the data source;

a connection manager module configured to facilitate a direct connection between respective ones of the plurality of interface modules and the plurality of port modules by indicating to a first one of the plurality of interface modules that a first one of the plurality of port modules is available.



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75. (New) The system of claim 74, wherein the direct connection is independent of the connection manager module.



76. (New) The system of claim 74, wherein the first one of the plurality of port modules is configured to pass a query command from the first one of the interface modules to the data source, and a query result from the data source to the first one of the interface modules.